

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P836901

Luminaire Tested: **ARCH3-90-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14692 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

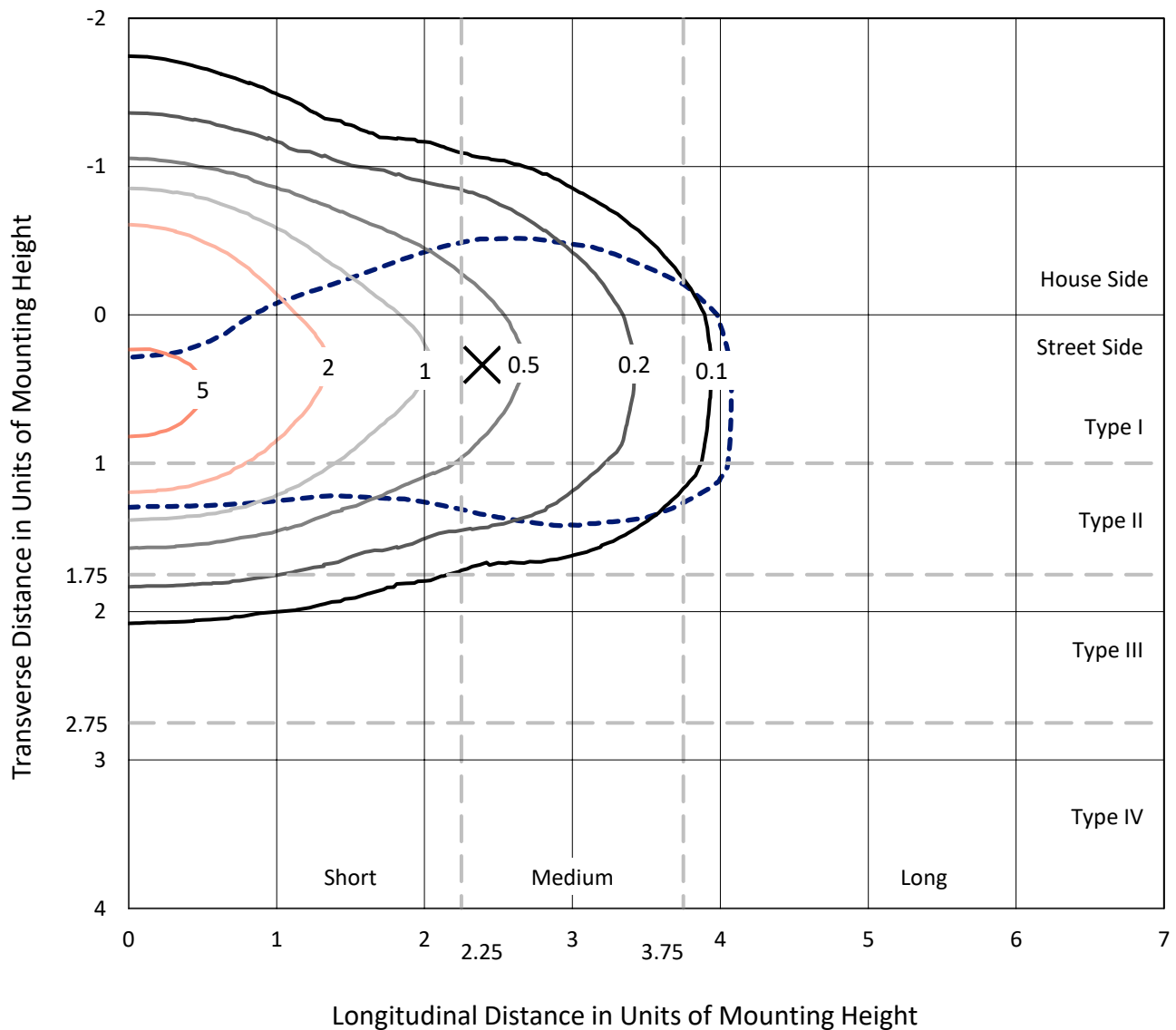
Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

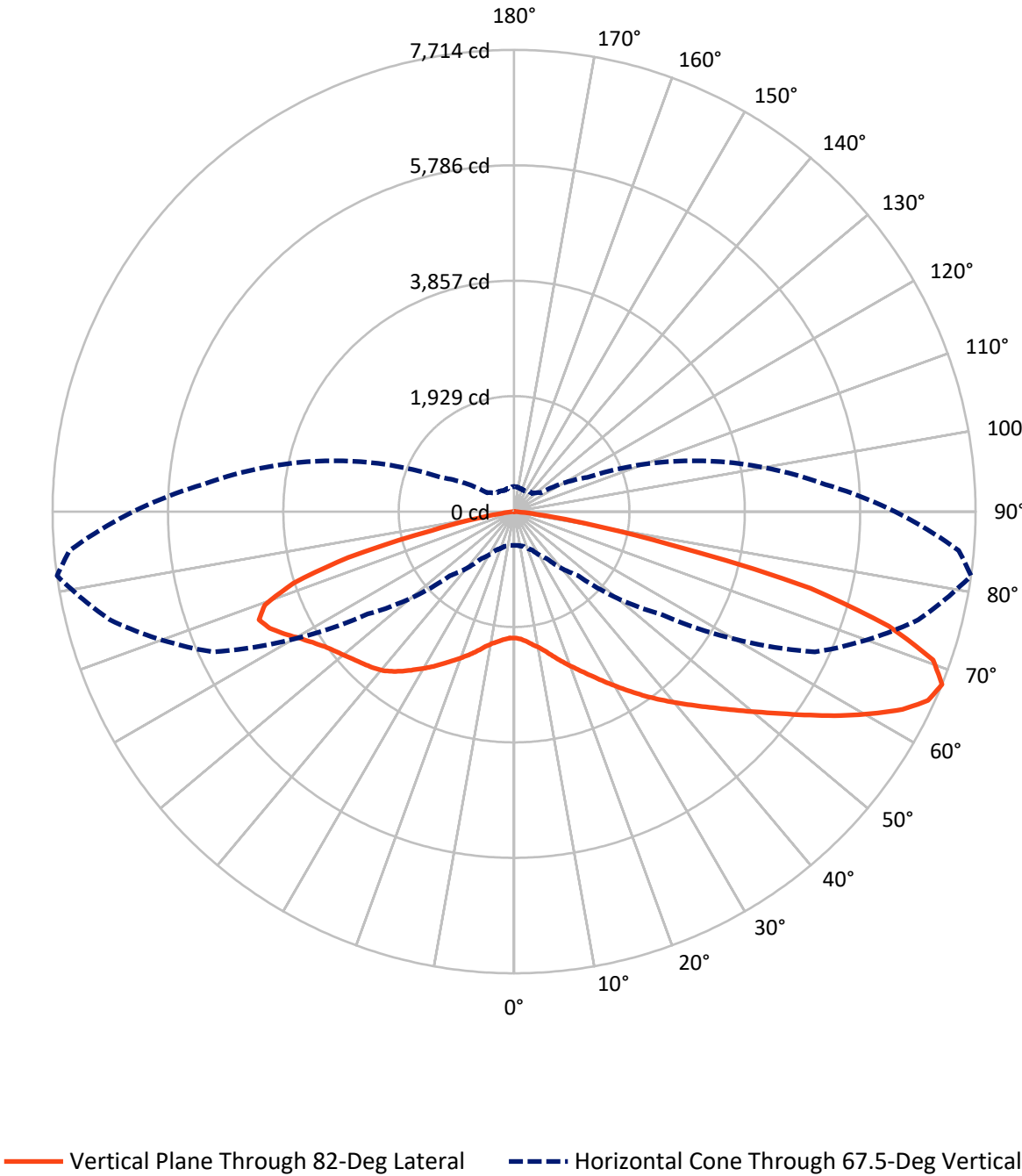
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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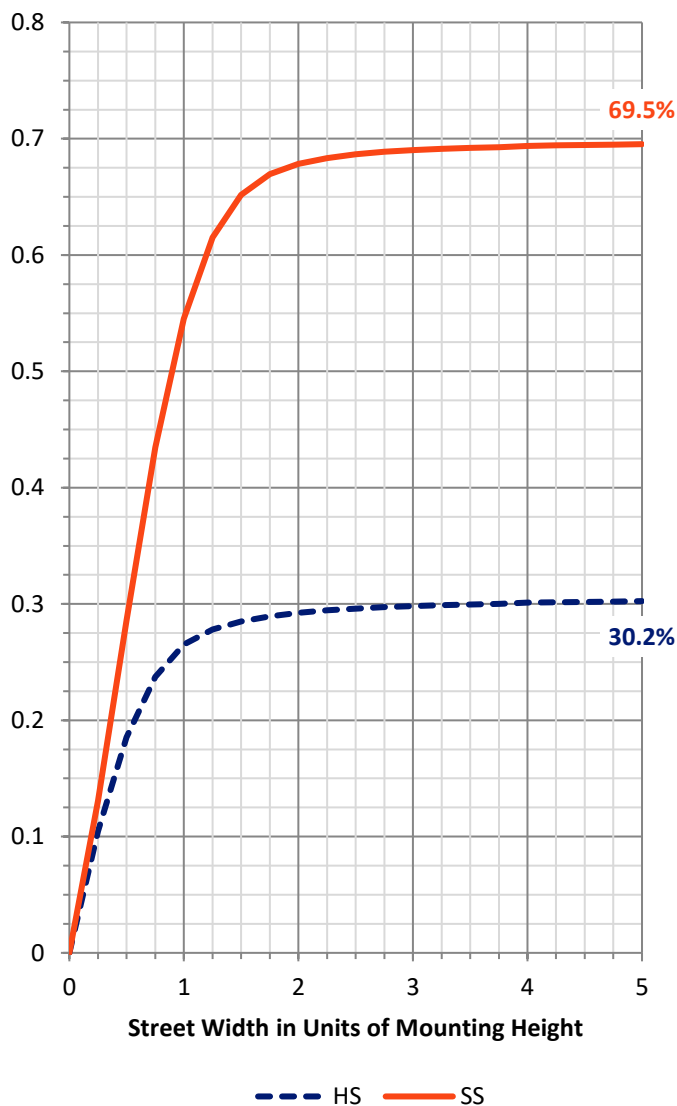
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4474.3	0.0	4474.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	10217.7	0.0	10217.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	14692.0	0.0	14692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	1.5
10°-20°	786.2	5.4
20°-30°	1580.1	10.8
30°-40°	2482.0	16.9
40°-50°	3023.6	20.6
50°-60°	2857.0	19.4
60°-70°	2359.2	16.1
70°-80°	1284.7	8.7
80°-90°	101.0	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14692.0	100.0
0°-180°	14692.0	100.0

Coefficient of Utilization



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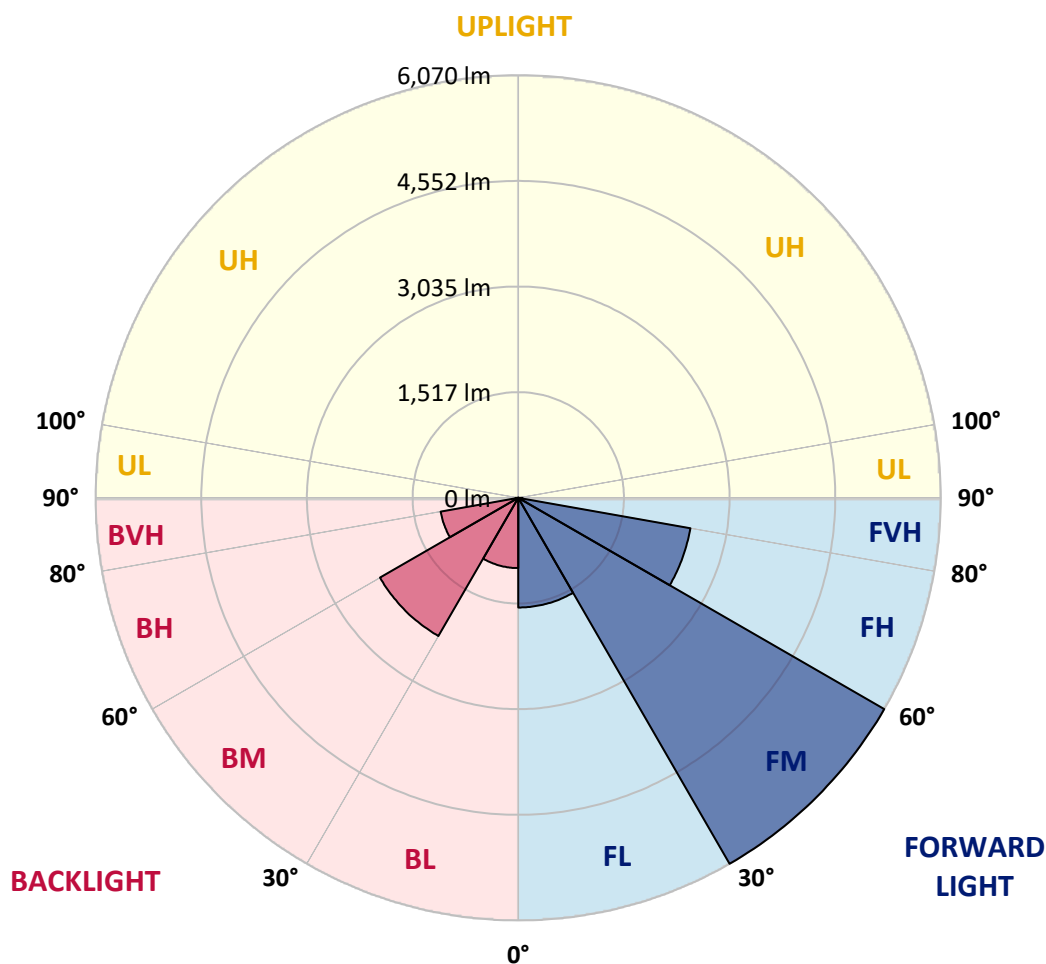
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1575.5	10.7			
FM	(30°-60°)	6069.9	41.3			
FH	(60°-80°)	2511.4	17.1			G2/5000
FVH	(80°-90°)	60.9	0.4			G1/100
BL	(0°-30°)	1009.0	6.9	B3/2500		
BM	(30°-60°)	2292.7	15.6	B2/2500		
BH	(60°-80°)	1132.5	7.7	B3/2500		G3/2500
BVH	(80°-90°)	40.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0
2.5°	2208.0	2208.0	2225.0	2225.0	2210.1	2186.6	2180.2	2154.6	2131.2	2131.2	2133.3
5°	2419.2	2417.0	2429.8	2412.8	2376.5	2329.6	2297.6	2242.1	2195.2	2180.2	2178.1
7.5°	2677.3	2675.2	2681.6	2653.8	2585.6	2508.8	2444.8	2355.2	2278.4	2246.4	2237.8
10°	2965.3	2963.2	2956.8	2909.8	2818.1	2698.6	2602.6	2478.9	2363.7	2312.5	2301.8
12.5°	3295.9	3291.7	3276.7	3208.5	3082.6	2929.0	2790.4	2630.4	2476.8	2406.4	2382.9
15°	3665.0	3658.6	3630.9	3547.7	3379.1	3185.0	3005.8	2801.0	2613.3	2521.6	2489.6
17.5°	4053.3	4053.3	4010.6	3886.9	3699.1	3458.1	3236.2	2976.0	2756.2	2643.2	2604.8
20°	4447.9	4445.8	4392.5	4243.1	4021.3	3743.9	3462.3	3176.5	2903.4	2766.9	2720.0
22.5°	4863.9	4859.7	4793.5	4622.9	4358.3	4044.7	3716.2	3374.9	3065.6	2901.3	2841.6
25°	5341.8	5335.4	5254.3	5045.3	4731.7	4377.5	4002.1	3607.4	3251.1	3050.6	2980.2
27.5°	5849.5	5841.0	5745.0	5501.8	5158.3	4731.7	4317.8	3876.2	3455.9	3217.0	3138.1
30°	6301.8	6295.4	6190.8	5941.2	5546.6	5083.7	4618.6	4145.0	3671.4	3394.1	3295.9
32.5°	6643.1	6643.1	6549.2	6303.9	5894.3	5420.7	4921.5	4398.9	3895.4	3583.9	3468.7
35°	6850.0	6856.4	6775.4	6579.1	6193.0	5738.6	5235.1	4697.5	4134.3	3786.6	3662.9
37.5°	6879.9	6901.2	6854.3	6722.0	6399.9	6003.1	5542.3	4985.5	4381.8	3991.4	3852.7
40°	6741.2	6756.2	6758.3	6707.1	6485.2	6193.0	5813.2	5290.6	4644.2	4206.9	4046.9
42.5°	6463.9	6474.6	6493.8	6508.7	6423.4	6276.2	6020.2	5574.3	4923.7	4426.6	4238.9
45°	6105.5	6103.4	6135.4	6199.4	6195.1	6229.2	6135.4	5832.4	5213.8	4676.2	4452.2
47.5°	5570.0	5559.4	5672.4	5817.5	5890.0	6050.0	6137.5	6035.1	5529.5	4951.4	4695.4
50°	4731.7	4721.0	4968.5	5309.8	5523.1	5766.3	6020.2	6156.7	5860.2	5260.7	4959.9
52.5°	3711.9	3701.3	4014.9	4612.2	5077.3	5431.4	5783.4	6184.4	6173.8	5606.3	5258.6
55°	2760.5	2752.0	3057.0	3703.4	4456.5	5043.1	5493.2	6111.9	6468.2	6003.1	5621.2
57.5°	1945.6	1941.3	2205.8	2741.3	3658.6	4569.5	5213.8	5971.1	6739.1	6434.0	6030.8
60°	1365.3	1358.9	1550.9	1964.8	2766.9	3854.9	4936.5	5783.4	6941.8	6858.6	6466.0
62.5°	919.5	915.2	1051.7	1397.3	1964.8	2967.4	4516.2	5657.5	7057.0	7285.2	6905.5
65°	697.6	695.5	757.3	947.2	1390.9	2131.2	3848.5	5642.6	7071.9	7605.2	7278.8
67.5°	563.2	565.3	599.5	708.3	962.1	1514.6	2984.5	5548.7	6993.0	7714.0	7460.2
70°	460.8	460.8	475.7	548.3	710.4	1021.9	2084.2	5122.1	6773.2	7430.3	7244.7
72.5°	352.0	354.1	401.1	443.7	535.5	716.8	1335.4	4238.9	6254.8	6551.4	6410.6
75°	279.5	277.3	305.1	364.8	416.0	512.0	819.2	3040.0	5322.6	5119.9	5030.3
77.5°	200.5	198.4	219.7	270.9	315.7	362.7	488.5	1533.8	2894.9	2660.2	2594.1
80°	136.5	132.3	151.5	187.7	209.1	213.3	238.9	588.8	1262.9	1190.4	1175.4
82.5°	70.4	70.4	81.1	106.7	108.8	110.9	106.7	189.9	418.1	390.4	373.3
85°	27.7	27.7	29.9	36.3	36.3	38.4	38.4	49.1	44.8	42.7	40.5
87.5°	2.1	2.1	4.3	4.3	6.4	6.4	6.4	8.5	10.7	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0	2112.0
2.5°	2129.0	2120.5	2092.8	2086.4	2082.1	2075.7	2077.8	2062.9	2056.5	2058.6	2050.1
5°	2167.4	2152.5	2118.4	2103.4	2099.2	2092.8	2099.2	2088.5	2077.8	2082.1	2077.8
7.5°	2220.8	2199.4	2156.8	2141.8	2139.7	2133.3	2141.8	2133.3	2124.8	2129.0	2120.5
10°	2276.2	2248.5	2201.6	2186.6	2186.6	2184.5	2193.0	2180.2	2171.7	2173.8	2169.6
12.5°	2357.3	2321.0	2269.8	2257.0	2250.6	2257.0	2259.2	2242.1	2227.2	2229.3	2222.9
15°	2455.4	2414.9	2359.4	2340.2	2336.0	2333.8	2325.3	2304.0	2284.8	2282.6	2276.2
17.5°	2562.1	2510.9	2444.8	2425.6	2406.4	2400.0	2378.6	2350.9	2321.0	2321.0	2312.5
20°	2664.5	2606.9	2528.0	2500.2	2472.5	2446.9	2410.6	2365.8	2327.4	2321.0	2312.5
22.5°	2775.4	2707.2	2615.4	2574.9	2525.8	2474.6	2412.8	2353.0	2304.0	2293.3	2286.9
25°	2899.2	2813.8	2705.0	2645.3	2566.4	2487.4	2395.7	2318.9	2261.3	2244.2	2240.0
27.5°	3035.7	2933.3	2801.0	2713.6	2598.4	2474.6	2357.3	2265.6	2195.2	2173.8	2167.4
30°	3174.4	3052.8	2888.5	2760.5	2598.4	2434.1	2286.9	2180.2	2099.2	2069.3	2065.0
32.5°	3313.0	3176.5	2967.4	2786.1	2572.8	2365.8	2195.2	2069.3	1977.6	1941.3	1949.8
35°	3479.4	3313.0	3040.0	2796.8	2530.1	2282.6	2090.6	1943.4	1849.6	1817.6	1824.0
37.5°	3652.2	3449.5	3097.6	2788.2	2470.4	2188.8	1973.3	1830.4	1713.0	1657.6	1664.0
40°	3801.5	3573.3	3138.1	2758.4	2393.6	2082.1	1858.1	1670.4	1508.2	1454.9	1448.5
42.5°	3942.3	3665.0	3159.4	2713.6	2306.1	1958.4	1693.8	1452.8	1290.6	1224.5	1226.6
45°	4089.5	3754.6	3150.9	2653.8	2197.3	1813.3	1482.6	1239.4	1096.5	1036.8	1038.9
47.5°	4258.1	3850.6	3142.4	2589.8	2065.0	1625.6	1280.0	1051.7	928.0	885.3	881.1
50°	4437.3	3957.3	3131.7	2510.9	1917.8	1416.5	1079.5	876.8	772.3	744.5	738.1
52.5°	4639.9	4072.5	3125.3	2417.0	1740.8	1194.6	900.3	723.2	652.8	633.6	631.5
55°	4883.1	4206.9	3133.8	2304.0	1527.4	985.6	748.8	622.9	576.0	565.3	563.2
57.5°	5179.7	4379.7	3159.4	2171.7	1303.4	804.3	637.9	561.1	531.2	522.7	522.7
60°	5501.8	4575.9	3206.4	2022.4	1079.5	663.5	565.3	512.0	499.2	509.9	509.9
62.5°	5849.5	4806.3	3289.5	1841.0	870.4	561.1	507.7	471.5	462.9	484.3	486.4
65°	6171.6	5030.3	3342.9	1623.4	691.2	486.4	462.9	430.9	435.2	456.5	454.4
67.5°	6370.0	5215.9	3268.2	1350.4	548.3	430.9	416.0	388.3	398.9	416.0	418.1
70°	6248.4	5111.4	2899.2	1019.7	428.8	375.5	364.8	347.7	356.3	377.6	386.1
72.5°	5653.2	4578.1	2254.9	689.1	345.6	315.7	320.0	311.5	322.1	341.3	360.5
75°	4588.7	3460.2	1512.5	441.6	273.1	268.8	275.2	268.8	273.1	292.3	302.9
77.5°	2395.7	1687.4	753.1	275.2	202.7	209.1	219.7	221.9	234.7	238.9	243.2
80°	1117.8	759.5	313.6	153.6	134.4	147.2	168.5	170.7	174.9	181.3	183.5
82.5°	364.8	228.3	145.1	83.2	76.8	83.2	108.8	130.1	132.3	145.1	145.1
85°	38.4	23.5	32.0	34.1	29.9	36.3	49.1	46.9	21.3	12.8	12.8
87.5°	10.7	8.5	10.7	10.7	8.5	8.5	6.4	2.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)